

Stanford



Robert Tibshirani

Professor of Biomedical Data Science and of Statistics

Bio

ACADEMIC APPOINTMENTS

- Professor, Biomedical Data Science
- Professor, Statistics
- Member, Bio-X
- Member, Child Health Research Institute
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Fellow, American Statistical Association (1992)
- Fellow, Institute of mathematical statistics (1993)
- Guggenheim fellowship, Guggenheim foundation (1994)
- Fellow, Royal Society of Canada (1997)
- President's award, Committee of Presidents of Statistical societies (1997)
- E.W Steacie Prize, NSERC- Canada (1998)
- Alumni Achievement Award, University of Waterloo (2006)
- Elected Member, National Academy of Sciences (2012)
- Gold medal, Statistical Society of Canada (2012)

PROFESSIONAL EDUCATION

- BMath, Waterloo , Math- CS/Statistics (1979)
- MSc, Toronto , Statistics (1980)
- PhD, Stanford , Statistics (1984)

LINKS

- Personal Web site: <http://www-stat.stanford.edu/~tibs>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research is in applied statistics and biostatistics. I specialize in computer-intensive methods for regression and classification, bootstrap, cross-validation and statistical inference, and signal and image analysis for medical diagnosis.

Teaching

COURSES

2017-18

- Introduction to Statistical Learning: STATS 216 (Win)
- Modern Applied Statistics: Learning: STATS 315A (Win)

2016-17

- Data Science 101: STATS 101 (Aut)
- Introduction to Statistical Learning: STATS 216 (Win)

2015-16

- Introduction to Statistical Modeling: STATS 305 (Aut)

2014-15

- Methods for Applied Statistics: Unsupervised Learning: STATS 306B (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Ruoxi Wang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Immunology (Phd Program)

Publications

PUBLICATIONS

- **Pharmacogenetics and progression to neovascular age-related macular degeneration-Evidence supporting practice change** *REPLY PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vavvas, D. G., Small, K. W., Awh, C., Zanke, B. W., Tibshirani, R. J., Kustra, R.
2018; 115 (25): E5640–E5641
- **Some methods for heterogeneous treatment effect estimation in high dimensions** *STATISTICS IN MEDICINE*
Powers, S., Qian, J., Jung, K., Schuler, A., Shah, N. H., Hastie, T., Tibshirani, R.
2018; 37 (11): 1767–87
- **Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse.** *Nature medicine*
Good, Z., Sarno, J., Jager, A., Samusik, N., Aghaepour, N., Simonds, E. F., White, L., Lacayo, N. J., Fantl, W. J., Fazio, G., Gaipa, G., Biondi, A., Tibshirani, et al
2018; 24 (4): 474–83
- **Post-selection inference for 1-penalized likelihood models** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
Taylor, J., Tibshirani, R.
2018; 46 (1): 41–61
- **CFH and ARMS2 genetic risk determines progression to neovascular age-related macular degeneration after antioxidant and zinc supplementation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vavvas, D. G., Small, K. W., Awh, C. C., Zanke, B. W., Tibshirani, R. J., Kustra, R.
2018; 115 (4): E696–E704
- **DRUG-NEM: Optimizing drug combinations using single-cell perturbation response to account for intratumoral heterogeneity.** *Proceedings of the National Academy of Sciences of the United States of America*
Anchang, B., Davis, K. L., Fienberg, H. G., Williamson, B. D., Bendall, S. C., Karacosta, L. G., Tibshirani, R., Nolan, G. P., Plevritis, S. K.

2018; 115 (18): E4294–E4303

- **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging.** *Proceedings of the National Academy of Sciences of the United States of America*
Margulis, K., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.
2018
- **Food allergy and omics.** *The Journal of allergy and clinical immunology*
Dhondalay, G. K., Rael, E., Acharya, S., Zhang, W., Sampath, V., Galli, S. J., Tibshirani, R., Boyd, S. D., Maecker, H., Nadeau, K. C., Andorf, S.
2018; 141 (1): 20–29
- **SELECTING THE NUMBER OF PRINCIPAL COMPONENTS: ESTIMATION OF THE TRUE RANK OF A NOISY MATRIX** *ANNALS OF STATISTICS*
Choi, Y., Taylor, J., Tibshirani, R.
2017; 45 (6): 2590–2617
- **KLHL6 Is Preferentially Expressed in Germinal Center-Derived B-Cell Lymphomas** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Kunder, C. A., Roncador, G., Advani, R. H., Gualco, G., Bacchi, C. E., Sabile, J. M., Lossos, I. S., Nie, K., Tibshirani, R., Green, M. R., Alizadeh, A. A., Natkunam, Y.
2017; 148 (6): 465–76
- **Big data modeling to predict platelet usage and minimize wastage in a tertiary care system** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Guan, L., Tian, X., Gombar, S., Zemek, A. J., Krishnan, G., Scott, R., Narasimhan, B., Tibshirani, R. J., Pham, T. D.
2017; 114 (43): 11368–73
- **Post-selection point and interval estimation of signal sizes in Gaussian samples** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
Reid, S., Taylor, J., Tibshirani, R.
2017; 45 (2): 128–148
- **Chemical Space Mimicry for Drug Discovery** *JOURNAL OF CHEMICAL INFORMATION AND MODELING*
Yuan, W., Jiang, D., Nambiar, D. K., Liew, L. P., Hay, M. P., Bloomstein, J., Lu, P., Turner, B., Le, Q., Tibshirani, R., Khatri, P., Moloney, M. G., Koong, et al
2017; 57 (4): 875–882
- **Diagnosis of prostate cancer by desorption electrospray ionization mass spectrometric imaging of small metabolites and lipids** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Banerjee, S., Zare, R. N., Tibshirani, R. J., Kunder, C. A., Nolley, R., Fan, R., Brooks, J. D., Sonn, G. A.
2017; 114 (13): 3334–3339
- **Landscape of monoallelic DNA accessibility in mouse embryonic stem cells and neural progenitor cells.** *Nature genetics*
Xu, J., Carter, A. C., Gendrel, A., Attia, M., Loftus, J., Greenleaf, W. J., Tibshirani, R., Heard, E., Chang, H. Y.
2017; 49 (3): 377–386
- **Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single-institution cohort study** *BLOOD*
Desai, A., Joag, M. G., Lekakis, L., Chapman, J. R., Vega, F., Tibshirani, R., Tse, D., Markoe, A., Lossos, I. S.
2017; 129 (3): 324–332
- **An immune clock of human pregnancy.** *Science immunology*
Aghaeepour, N., Ganio, E. A., McIlwain, D., Tsai, A. S., Tingle, M., Van Gassen, S., Gaudilliere, D. K., Baca, Q., McNeil, L., Okada, R., Ghaemi, M. S., Furman, D., Wong, et al
2017; 2 (15)
- **An Ordered Lasso and Sparse Time-Lagged Regression** *TECHNOMETRICS*
Tibshirani, R., Suo, X.
2016; 58 (4): 415–423
- **High-dimensional regression adjustments in randomized experiments.** *Proceedings of the National Academy of Sciences of the United States of America*
Wager, S., Du, W., Taylor, J., Tibshirani, R. J.
2016

- **Cardiolipins Are Biomarkers of Mitochondria-Rich Thyroid Oncocytic Tumors.** *Cancer research*
Zhang, J., Yu, W., Ryu, S. W., Lin, J., Buentello, G., Tibshirani, R., Suliburk, J., Eberlin, L. S.
2016: -?
- **Data Shared Lasso: A novel tool to discover uplift** *COMPUTATIONAL STATISTICS & DATA ANALYSIS*
Gross, S. M., Tibshirani, R.
2016; 101: 226-235
- **Pancreatic Cancer Surgical Resection Margins: Molecular Assessment by Mass Spectrometry Imaging.** *PLoS medicine*
Eberlin, L. S., Margulis, K., Planell-Mendez, I., Zare, R. N., Tibshirani, R., Longacre, T. A., Jalali, M., Norton, J. A., Poultsides, G. A.
2016; 13 (8)
- **Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma.** *Blood*
Matthews, J. M., Bhatt, S., Patricelli, M. P., Nomanbhoy, T. K., Jiang, X., Natkunam, Y., Gentles, A. J., Martinez, E., Zhu, D., Chapman, J. R., Cortizas, E., Shyam, R., Chinichian, et al
2016; 128 (2): 239-248
- **Exact Post-Selection Inference for Sequential Regression Procedures** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Tibshirani, R. J., Taylor, J., Lockhart, R., Tibshirani, R.
2016; 111 (514): 600-614
- **INFERENCE IN ADAPTIVE REGRESSION VIA THE KAC-RICE FORMULA** *ANNALS OF STATISTICS*
Taylor, J. E., Loftus, J. R., Tibshirani, R. J.
2016; 44 (2): 743-770
- **Sparse regression and marginal testing using cluster prototypes.** *Biostatistics*
Reid, S., Tibshirani, R.
2016; 17 (2): 364-376
- **Successful immunotherapy induces previously unidentified allergen-specific CD4+ T-cell subsets.** *Proceedings of the National Academy of Sciences of the United States of America*
Ryan, J. F., Hovde, R., Glanville, J., Lyu, S., Ji, X., Gupta, S., Tibshirani, R. J., Jay, D. C., Boyd, S. D., Chinthrajah, R. S., Davis, M. M., Galli, S. J., Maecker, et al
2016; 113 (9): E1286-95
- **Sequential selection procedures and false discovery rate control** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
G'Sell, M. G., Wager, S., Chouldechova, A., Tibshirani, R.
2016; 78 (2): 423-444
- **A STUDY OF ERROR VARIANCE ESTIMATION IN LASSO REGRESSION** *STATISTICA SINICA*
Reid, S., Tibshirani, R., Friedman, J.
2016; 26 (1): 35-67
- **CUSTOMIZED TRAINING WITH AN APPLICATION TO MASS SPECTROMETRIC IMAGING OF CANCER TISSUE** *ANNALS OF APPLIED STATISTICS*
Powers, S., Hastie, T., Tibshirani, R.
2015; 9 (4): 1709-1725
- **A Permutation Approach to Testing Interactions for Binary Response by Comparing Correlations Between Classes** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Simon, N., Tibshirani, R.
2015; 110 (512): 1707-1716
- **A component lasso** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
Hussami, N., Tibshirani, R. J.
2015; 43 (4): 624-646
- **The Radiogenomic Risk Score: Construction of a Prognostic Quantitative, Noninvasive Image-based Molecular Assay for Renal Cell Carcinoma** *RADIOLOGY*
Jamshidi, N., Jonasch, E., Zapala, M., Korn, R. L., Aganovic, L., Zhao, H., Sitaram, R. T., Tibshirani, R. J., Banerjee, S., Brooks, J. D., Ljungberg, B., Kuo, M. D.

2015; 277 (1): 114-123

- **Statistical learning and selective inference** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Taylor, J., Tibshirani, R. J.
2015; 112 (25): 7629-7634
- **Collaborative regression** *BIOSTATISTICS*
Gross, S. M., Tibshirani, R.
2015; 16 (2): 326-338
- **CONVEX HIERARCHICAL TESTING OF INTERACTIONS** *ANNALS OF APPLIED STATISTICS*
Bien, J., Simon, N., Tibshirani, R.
2015; 9 (1): 27-42
- **Molecular subtyping for clinically defined breast cancer subgroups** *BREAST CANCER RESEARCH*
Zhao, X., Rodland, E. A., Tibshirani, R., Plevritis, S.
2015; 17
- **Pancancer analysis of DNA methylation-driven genes using MethylMix** *GENOME BIOLOGY*
Gevaert, O., Tibshirani, R., Plevritis, S. K.
2015; 16
- **Pancancer analysis of DNA methylation-driven genes using MethylMix.** *Genome biology*
Gevaert, O., Tibshirani, R., Plevritis, S. K.
2015; 16: 17-?
- **A Simple Method for Estimating Interactions Between a Treatment and a Large Number of Covariates** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Tian, L., Alizadeh, A. A., Gentles, A. J., Tibshirani, R.
2014; 109 (508): 1517-1532
- **Quantitative SD-OCT imaging biomarkers as indicators of age-related macular degeneration progression.** *Investigative ophthalmology & visual science*
de Sisternes, L., Simon, N., Tibshirani, R., Leng, T., Rubin, D. L.
2014; 55 (11): 7093-7103
- **Alteration of the lipid profile in lymphomas induced by MYC overexpression.** *Proceedings of the National Academy of Sciences of the United States of America*
Eberlin, L. S., Gabay, M., Fan, A. C., Gouw, A. M., Tibshirani, R. J., Felsher, D. W., Zare, R. N.
2014; 111 (29): 10450-10455
- **Automated identification of stratifying signatures in cellular subpopulations** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bruggner, R. V., Bodenmiller, B., Dill, D. L., Tibshirani, R. J., Nolan, G. P.
2014; 111 (26): E2770-E2777
- **Active idiotypic vaccination versus control immunotherapy for follicular lymphoma.** *Journal of clinical oncology*
Levy, R., Ganjoo, K. N., Leonard, J. P., Vose, J. M., Flinn, I. W., Ambinder, R. F., Connors, J. M., Berinstein, N. L., Belch, A. R., Bartlett, N. L., Nichols, C., Emmanouilides, C. E., Timmerman, et al
2014; 32 (17): 1797-1803
- **Regularization Paths for Conditional Logistic Regression: The clogitL1 Package** *JOURNAL OF STATISTICAL SOFTWARE*
Reid, S., Tibshirani, R.
2014; 58 (12): 1-23
- **Sensitivity analysis for inference with partially identifiable covariance matrices** *COMPUTATIONAL STATISTICS*
G'Sell, M. G., Shen-Orr, S. S., Tibshirani, R.
2014; 29 (3-4): 529-546
- **LMO2 and BCL6 are associated with improved survival in primary central nervous system lymphoma** *BRITISH JOURNAL OF HAEMATOLOGY*
Lossos, C., Bayraktar, S., Weinzierl, E., Younes, S. F., Hoseini, P. J., Tibshirani, R. J., Posthumus, J. S., DeAngelis, L. M., Raizer, J., Schiff, D., Abrey, L., Natkunam, Y., Lossos, et al

- 2014; 165 (5): 640-648
- **A multicentre study of primary breast diffuse large B-cell lymphoma in the rituximab era** *BRITISH JOURNAL OF HAEMATOLOGY*
Hosein, P. J., Maragulia, J. C., Salzberg, M. P., Press, O. W., Habermann, T. M., Vose, J. M., Bast, M., Advani, R. H., Tibshirani, R., Evens, A. M., Islam, N., Leonard, J. P., Martin, et al
2014; 165 (3): 358-363
 - **A SIGNIFICANCE TEST FOR THE LASSO** *ANNALS OF STATISTICS*
Lockhart, R., Taylor, J., Tibshirani, R. J., Tibshirani, R.
2014; 42 (2): 413-468
 - **Molecular assessment of surgical-resection margins of gastric cancer by mass-spectrometric imaging.** *Proceedings of the National Academy of Sciences of the United States of America*
Eberlin, L. S., Tibshirani, R. J., Zhang, J., Longacre, T. A., Berry, G. J., Bingham, D. B., Norton, J. A., Zare, R. N., Poultides, G. A.
2014; 111 (7): 2436-2441
 - **Systems analysis of sex differences reveals an immunosuppressive role for testosterone in the response to influenza vaccination.** *Proceedings of the National Academy of Sciences of the United States of America*
Furman, D., Hejblum, B. P., Simon, N., Jovic, V., Dekker, C. L., Thiébaud, R., Tibshirani, R. J., Davis, M. M.
2014; 111 (2): 869-874
 - **Increasing value and reducing waste in research design, conduct, and analysis.** *Lancet*
Ioannidis, J. P., Greenland, S., Hlatky, M. A., Khoury, M. J., Macleod, M. R., Moher, D., Schulz, K. F., Tibshirani, R.
2014; 383 (9912): 166-175
 - **A shared transcriptional program in early breast neoplasias despite genetic and clinical distinctions** *GENOME BIOLOGY*
Brunner, A. L., Li, J., Guo, X., Sweeney, R. T., Varma, S., Zhu, S. X., Li, R., Tibshirani, R., West, R. B.
2014; 15 (5)
 - **Finding consistent patterns: A nonparametric approach for identifying differential expression in RNA-Seq data** *STATISTICAL METHODS IN MEDICAL RESEARCH*
Li, J., Tibshirani, R.
2013; 22 (5): 519-536
 - **Identification of gene microarray expression profiles in patients with chronic graft-versus-host disease following allogeneic hematopoietic cell transplantation.** *Clinical immunology*
Kohrt, H. E., Tian, L., Li, L., Alizadeh, A. A., Hsieh, S., Tibshirani, R. J., Strober, S., Sarwal, M., Lowsky, R.
2013; 148 (1): 124-135
 - **A LASSO FOR HIERARCHICAL INTERACTIONS** *ANNALS OF STATISTICS*
Bien, J., Taylor, J., Tibshirani, R.
2013; 41 (3): 1111-1141
 - **A Sparse-Group Lasso** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Simon, N., Friedman, J., Hastie, T., Tibshirani, R.
2013; 22 (2): 231-245
 - **Classification of patients from time-course gene expression** *BIostatistics*
Zhang, Y., Tibshirani, R., Davis, R.
2013; 14 (1): 87-98
 - **Scientific research in the age of omics: the good, the bad, and the sloppy** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
Witten, D. M., Tibshirani, R.
2013; 20 (1): 125-127
 - **Coronary risk assessment among intermediate risk patients using a clinical and biomarker based algorithm developed and validated in two population cohorts** *CURRENT MEDICAL RESEARCH AND OPINION*
Cross, D. S., McCarty, C. A., Hytopoulos, E., Beggs, M., Nolan, N., Harrington, D. S., Hastie, T., Tibshirani, R., Tracy, R. P., Psaty, B. M., McClelland, R., Tsao, P. S., Quettermous, et al
2012; 28 (11): 1819-1830

- **Genome-wide Measurement of RNA Folding Energies** *MOLECULAR CELL*
Wan, Y., Qu, K., Ouyang, Z., Kertesz, M., Li, J., Tibshirani, R., Makino, D. L., Nutter, R. C., Segal, E., Chang, H. Y.
2012; 48 (2): 169-181
- **Normalization, testing, and false discovery rate estimation for RNA-sequencing data** *BIOSTATISTICS*
Li, J., Witten, D. M., Johnstone, I. M., Tibshirani, R.
2012; 13 (3): 523-538
- **STANDARDIZATION AND THE GROUP LASSO PENALTY** *STATISTICA SINICA*
Simon, N., Tibshirani, R.
2012; 22 (3): 983-1001
- **Autoantibody Epitope Spreading in the Pre-Clinical Phase Predicts Progression to Rheumatoid Arthritis** *PLOS ONE*
Sokolove, J., Bromberg, R., Deane, K. D., Lahey, L. J., Derber, L. A., Chandra, P. E., Edison, J. D., Gilliland, W. R., Tibshirani, R. J., Norris, J. M., Holers, V. M., Robinson, W. H.
2012; 7 (5)
- **DEGREES OF FREEDOM IN LASSO PROBLEMS** *ANNALS OF STATISTICS*
Tibshirani, R. J., Taylor, J.
2012; 40 (2): 1198-1232
- **In situ vaccination against mycosis fungoides by intratumoral injection of a TLR9 agonist combined with radiation: a phase 1/2 study** *BLOOD*
Kim, Y. H., Gratzinger, D., Harrison, C., Brody, J. D., Czerwinski, D. K., Ai, W. Z., Morales, A., Abdulla, F., Xing, L., Navi, D., Tibshirani, R. J., Advani, R. H., Lingala, et al
2012; 119 (2): 355-363
- **Strong rules for discarding predictors in lasso-type problems** *J. Royal stat. Assoc B*
robert tibshirani, bien, friedman, Hastie, Simon, Taylor, Tibshirani
2012; 74: 245-266
- **Inference with transposable data: modelling the effects of row and column correlations** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Allen, G. I., Tibshirani, R.
2012; 74: 721-743
- **Strong rules for discarding predictors in lasso-type problems** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Tibshirani, R., Bien, J., Friedman, J., Hastie, T., Simon, N., Taylor, J., Tibshirani, R. J.
2012; 74: 245-266
- **Transcriptional profiling of long non-coding RNAs and novel transcribed regions across a diverse panel of archived human cancers** *GENOME BIOLOGY*
Brunner, A. L., Beck, A. H., Edris, B., Sweeney, R. T., Zhu, S. X., Li, R., Montgomery, K., Varma, S., Gilks, T., Guo, X., Foley, J. W., Witten, D. M., Giacomini, et al
2012; 13 (8)
- **Sparse estimation of a covariance matrix** *BIOMETRIKA*
Bien, J., Tibshirani, R. J.
2011; 98 (4): 807-820
- **PROTOTYPE SELECTION FOR INTERPRETABLE CLASSIFICATION** *ANNALS OF APPLIED STATISTICS*
Bien, J., Tibshirani, R.
2011; 5 (4): 2403-2424
- **A fused lasso latent feature model for analyzing multi-sample aCGH data** *BIOSTATISTICS*
Nowak, G., Hastie, T., Pollack, J. R., Tibshirani, R.
2011; 12 (4): 776-791
- **Hierarchical Clustering With Prototypes via Minimax Linkage** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Bien, J., Tibshirani, R.
2011; 106 (495): 1075-1084

- **Prediction of survival in diffuse large B-cell lymphoma based on the expression of 2 genes reflecting tumor and microenvironment** *BLOOD*
Alizadeh, A. A., Gentles, A. J., Alencar, A. J., Liu, C. L., Kohrt, H. E., Houot, R., Goldstein, M. J., Zhao, S., Natkunam, Y., Advani, R. H., Gascoyne, R. D., Briones, J., Tibshirani, et al
2011; 118 (5): 1350-1358
- **NOVEL CELL-TYPE SPECIFIC DECONVOLUTION OF WHOLE-BLOOD GENE EXPRESSION PROFILES IN RENAL ACUTE REJECTION**
Khatri, P., Shen-Orr, S., Tibshirani, R., Butte, A., Sarwal, M.
WILEY-BLACKWELL.2011: 79-80
- **MicroRNAs Are Independent Predictors of Outcome in Diffuse Large B-Cell Lymphoma Patients Treated with R-CHOP** *CLINICAL CANCER RESEARCH*
Alencar, A. J., Malumbres, R., Kozloski, G. A., Advani, R., Talreja, N., Chinichian, S., Briones, J., Natkunam, Y., Sehn, L. H., Gascoyne, R. D., Tibshirani, R., Lossos, I. S.
2011; 17 (12): 4125-4135
- **THE SOLUTION PATH OF THE GENERALIZED LASSO** *ANNALS OF STATISTICS*
Tibshirani, R. J., Taylor, J.
2011; 39 (3): 1335-1371
- **Regularization Paths for Cox's Proportional Hazards Model via Coordinate Descent** *JOURNAL OF STATISTICAL SOFTWARE*
Simon, N., Friedman, J., Hastie, T., Tibshirani, R.
2011; 39 (5): 1-13
- **The Prognostic Value of Tumor-Associated Macrophages in Leiomyosarcoma A Single Institution Study** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*
Ganjoo, K. N., Witten, D., Patel, M., Espinosa, I., La, T., Tibshirani, R., van de Rijn, M., Jacobs, C., West, R. B.
2011; 34 (1): 82-86
- **Nearly-Isotonic Regression** *TECHNOMETRICS*
Tibshirani, R. J., Hoefling, H., Tibshirani, R.
2011; 53 (1): 54-61
- **Adaptive index models for marker-based risk stratification** *BIOSTATISTICS*
Tian, L., Tibshirani, R.
2011; 12 (1): 68-86
- **Regression shrinkage and selection via the lasso: a retrospective** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Tibshirani, R.
2011; 73: 273-282
- **Penalized classification using Fisher's linear discriminant** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Witten, D. M., Tibshirani, R.
2011; 73: 753-772
- **Bayesian gene set analysis for identifying significant biological pathways** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES C-APPLIED STATISTICS*
Shahbaba, B., Tibshirani, R., Shachaf, C. M., Plevritis, S. K.
2011; 60: 541-557
- **Supervised multidimensional scaling for visualization, classification, and bipartite ranking** *COMPUTATIONAL STATISTICS & DATA ANALYSIS*
Witten, D. M., Tibshirani, R.
2011; 55 (1): 789-801
- **A statistician plays darts** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES A-STATISTICS IN SOCIETY*
Tibshirani, R. J., Price, A., Taylor, J.
2011; 174: 213-226
- **In Situ Vaccination with TLR9 Agonist Combined with Local Radiation In Mycosis Fungoides: Analysis of Phase I/II Study** *52nd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Kim, Y. H., Gratzinger, D., Harrison, C., Brody, J., Czerwinski, D., Xing, L., Morales, A., Ai, W., Abdulla, F., Navi, D., Tibshirani, R. J., Advani, R., Natkunam, et al

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